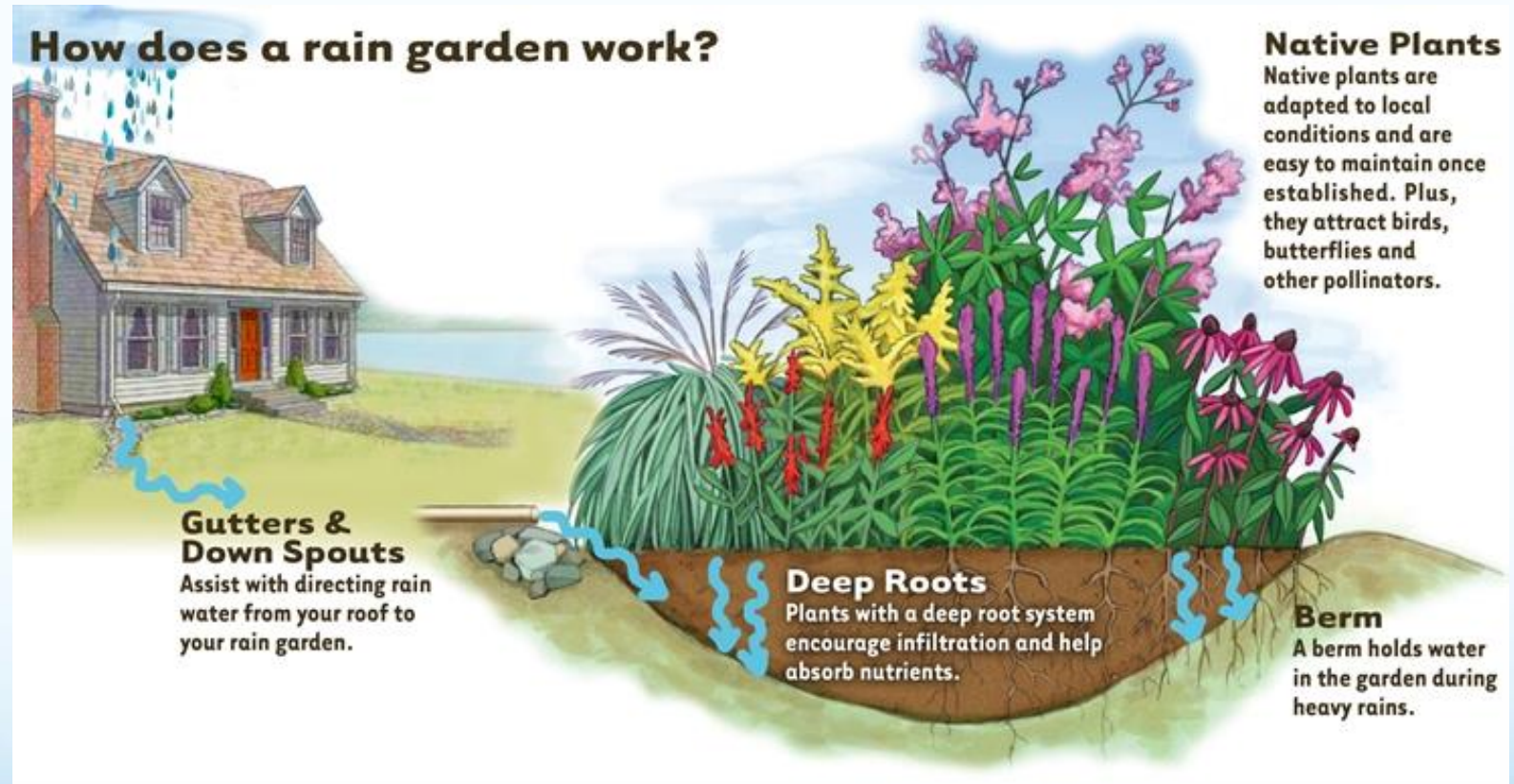


Raingardens!

Uses, Benefits and Resources



What is a Raingarden?



Addressing urban stormwater



Urban Changes to the Environment



More Runoff!

Impacts to streams

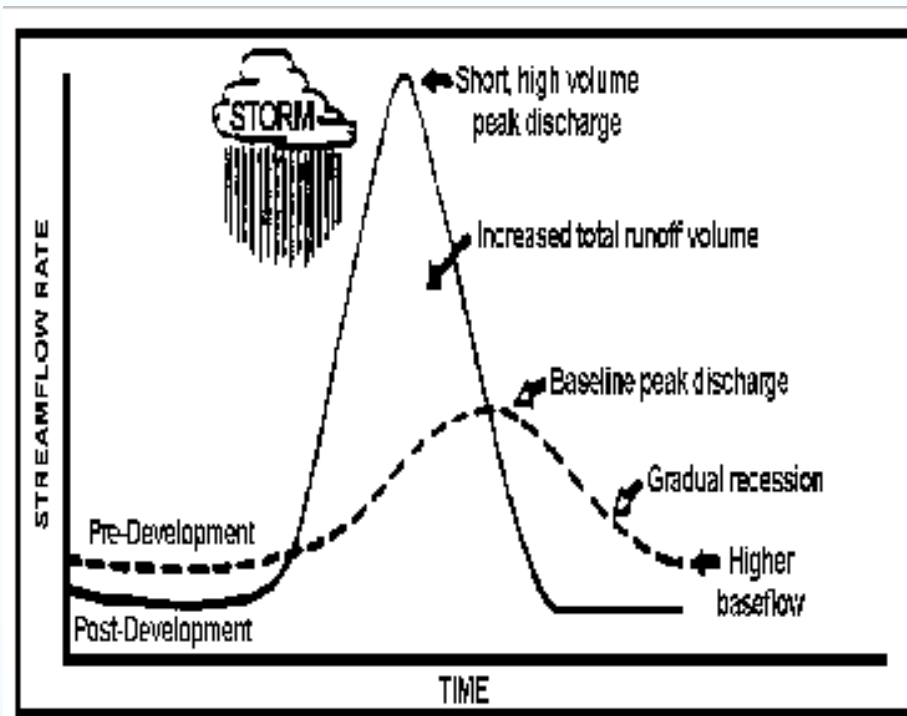


Figure 1. Impacts of urbanization on stream flow (Schueler, 1987).

...a fast, increased burst of water followed by diminished flow

In streams, this looks like...



...during storms...



...in times between storms...

How does this impact us?

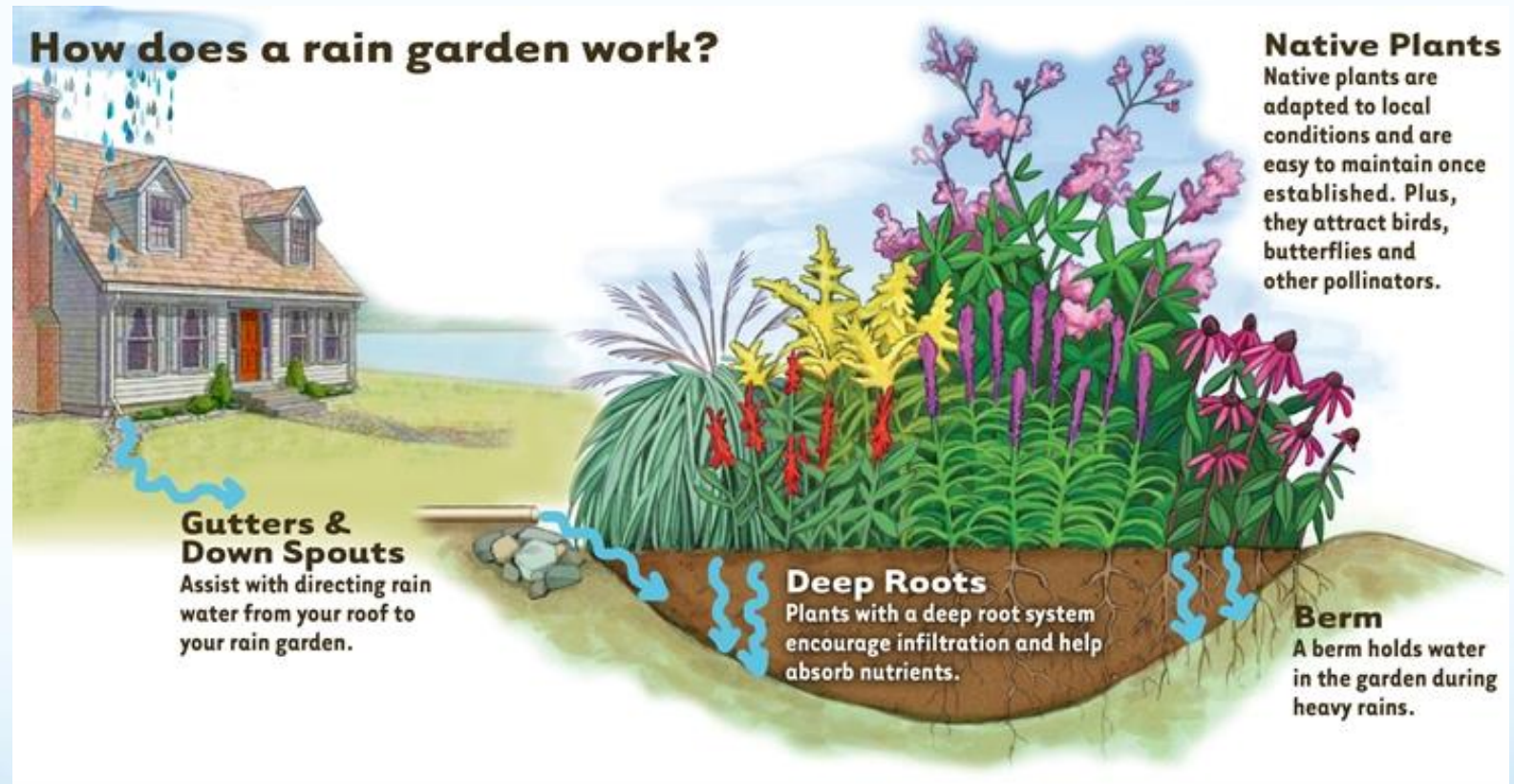
Drop in water quality and quantity



Around our homes, this looks like...



What is a Raingarden?



- Encourages infiltration
- Reduces nutrients in water
- Recharges ground water
- Distributes water more favorably in your yard
- Creates a beautiful garden!

Could look like...



In full sun



In shaded areas



In low areas



Native plants

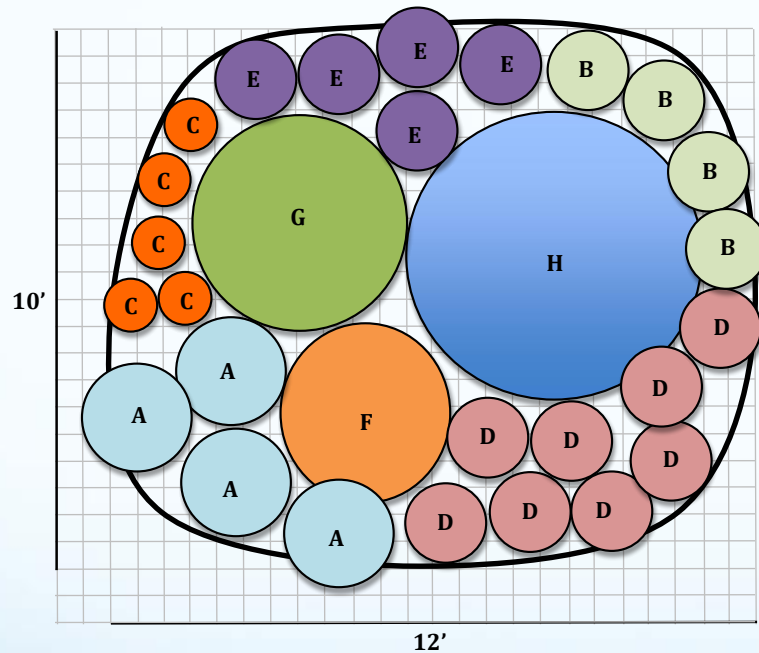
that tolerate wet and dry



Providing wildlife habitat

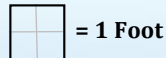


Plan garden site, size & soil



Plants (with height)

- A *Muhlenbergia capillaris* Pink Muhly Grass (3')
- B *Eragrostis spectabilis* Purple Lovegrass (2'-3')
- C *Asclepias tuberosa* Butterfly Milkweed
- D *Coreopsis lanceolata* Lanceleaf Coreopsis (1.5')
- E *Liatris spicata* Blazing Star (2')
- F *Symphotrichum lateriflorum* Calico Aster (3')
- G *Calliopsis americana* American Beautyberry (6')



Construction



Diverting gutters



Newly planted



Resources

- Building instructions: NC State Cooperative Extension
 - Backyard Raingarden program http://www.bae.ncsu.edu/topic/raingarden/Resources_RGmanual.pdf
 - Templates: Low Impact Development Center <http://www.lowimpactdevelopment.org/raingarden/design/templates.htm>
 - Raingardening in the South by Krauss and Spafford
- Workshops:
 - Friends of Bolin Creek Homeowners' Raingarden Initiative: April 14 & 25 in Carrboro
 - NC State Cooperative Extension
 - Ellerbe Creek Watershed Association
- Plants:
 - NC Botanical Garden
 - (website has a through list of native plant nurseries)
 - Niche Gardens
 - Mellow Marsh Nursery